

COMPLETE LISTING OF CLAIMS

IN ASCENDING ORDER WITH STATUS INDICATOR

Claim 1 (currently amended): A control system comprising:

a receiver adapted to receive detection data transmitted from a motion detector provided for movement with a performer, the detection data being time-serial detection data time-serially representing a state of a motion of the performer detected via a sensor that is included in said motion detector moving with the performer;

a performance apparatus adapted to carry out a performance of a tone on the basis of performance data;

an analyzer coupled with said receiver and adapted to analyze the motion of the performer on the basis of the detection data and thereby generate a plurality of analyzed data, wherein said analyzer analyzes a time-varying waveform corresponding to the time-serial detection data and generates a plurality of kinds of characteristic parameters pertaining to a shape of the time-varying waveform; and

a controller coupled with said performance apparatus and said analyzer and adapted to control the performance of a tone by said performance apparatus in accordance with ~~the said~~ plurality of analyzed data generated by said analyzer kinds of characteristic parameters.

Claim 2 (currently amended): A control system as claimed in claim 1 wherein said controller controls a tone volume of the tone to be performed by said performance apparatus, in accordance with at least one the plurality of analyzed data generated by said analyzer kinds of characteristic parameters.

Claim 3 (currently amended): A control system as claimed in claim 1 wherein said controller controls a tempo of the tone to be performed by said performance apparatus, in accordance with ~~the analyzed data~~ at least one of the plurality of kinds of characteristic parameters.

Claim 4 (currently amended): A control system as claimed in claim 1 wherein said controller controls performance timing of the tone to be performed by said performance apparatus, in accordance with ~~the analyzed data~~ at least one of the plurality of kinds of characteristic parameters.

Claim 5 (original): A control system as claimed in claim 1 wherein said controller controls a tone color of the tone to be performed by said performance apparatus, in accordance with at least one the plurality of analyzed data kinds of characteristic parameters.

Claim 6 (currently amended): A control system as claimed in claim 1 wherein said controller controls an effect of the tone to be performed by said performance apparatus, in accordance with at least one of the plurality of analyzed data kinds of characteristic parameters.

Claim 7 (currently amended): A control system as claimed in claim 1 wherein said controller controls a tone pitch of the tone to be performed by said performance apparatus, in accordance with at least one of the plurality of analyzed data kinds of characteristic parameters.

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Claim 8 (original): A control system as claimed in claim 1 wherein the sensor included in said motion detector is an acceleration sensor, and the detection data is data indicative of acceleration of the motion detected via the acceleration sensor.

Claim 9 (original): A control system as claimed in claim 8 wherein the plurality of analyzed data generated by said analyzer include at least peak point data indicative of an occurrence time of a local peak in a time-varying waveform of absolute acceleration of the motion.

Claim 10 (original): A control system as claimed in claim 8 wherein ~~the said~~ plurality of analyzed data kinds of characteristic parameters generated by said analyzer include at least peak value data indicative of a height of a local peak in a time-varying waveform of absolute acceleration of the motion.

Claim 11 (currently amended): A control system as claimed in claim 8 wherein ~~the~~ said plurality of analyzed data kinds of characteristic parameters generated by said analyzer include at least peak Q value data indicative of acuteness of a local peak in a time-varying waveform of absolute acceleration of the motion.

Claim 12 (currently amended): A control system as claimed in claim 8 wherein ~~the~~ said plurality of analyzed data kinds of characteristic parameters generated by said analyzer include at least peak interval data indicative of a time interval between local peaks in a time-varying waveform of absolute acceleration of the motion.

Claim 13 (currently amended): A control system as claimed in claim 8 wherein ~~the~~ said plurality of analyzed data kinds of characteristic parameters generated by said analyzer include at least depth data indicative of a depth of a bottom between adjacent local peaks in a time-varying waveform of absolute acceleration of the motion.

Claim 14 (currently amended): A control system as claimed in claim 8 wherein ~~the~~ said plurality of analyzed data kinds of characteristic parameters generated by said analyzer include at least high-frequency-component intensity data indicative of intensity of a high-frequency component at a local peak in a time-varying waveform of absolute acceleration of the motion.

Claim 15 (original): A control system as claimed in claim 1 wherein said motion detector is held by a hand of the performer.

Claim 16 (original): A control system as claimed in claim 1 wherein said motion detector is attached to a body of the performer.

Claim 17 (original): A control system as claimed in claim 1 wherein the performance data is automatic performance data, and said performance apparatus generates a tone on the basis of the automatic performance data.

Claim 18 (original): A control system as claimed in claim 1 which further comprises a transmitter adapted to transmit, to said motion detector, guide data for providing a guide or assistance as to a motion to be made by the performer.

Claim 19 (original): A control system as claimed in claim 1 wherein said performer is a human being.

Claim 20 (original): A control system as claimed in claim 1 wherein said performer is an animal.

Claim 21 (original): A control system as claimed in claim 1 wherein said performer is a stand-alone intelligent robot.

Claim 22 (withdrawn): A motion detector for movement with a performer comprising: a sensor adapted to detect a plurality of states of a motion of the performer; and a transmitter coupled with said sensor and adapted to transmit detection data representing each of said plurality of states detected via said sensor.

Claim 23 (withdrawn): A motion detector as claimed in claim 22 wherein said sensor detects acceleration of the motion in directions of two axes as said plurality of states.

Claim 24 (withdrawn): A motion detector as claimed in claim 22 wherein said sensor detects acceleration of the motion in directions of three axes as said plurality of states.

Claim 25 (withdrawn): A motion detector as claimed in claim 22 wherein said motion detector is held by a hand of the performer.

Claim 26 (withdrawn): A motion detector as claimed in claim 22 wherein said motion detector is attached to a body of the performer.

Claim 27 (withdrawn): A motion detector as claimed in claim 22 which further comprises a receiver adapted to receive guide data for providing a guide or assistance as to a motion to be made by the performer.

Claim 28 (withdrawn): A motion detector as claimed as claimed 22 wherein said performer is a human being.

Claim 29 (withdrawn): A motion detector as claimed in claim 22 wherein said performer is an animal.

Claim 30 (withdrawn): A motion detector as claimed in claim 22 wherein said performer is a stand-alone intelligent robot.

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Claim 31 (withdrawn): A motion detector as claimed in claim 22 which further comprises an operator for generating instruction data, and wherein said transmitter is further adapted to transmit the instruction data.

Claim 32 (withdrawn): A motion detector as claimed in claim 22 which further comprises a light-emitting device adapted to be subjected to light emission control in accordance with said plurality of states detected via said sensor.

Claim 33 (currently amended): A control system comprising:

a receiver adapted to receive a plurality of detection data transmitted from a single motion detector provided for movement with a performer, said plurality of detection data being detection data of a plurality of axial components, each of the detection data representing a state of a motion of the performer detected via a sensor that is included in said motion detector moving with the performer;

a performance apparatus adapted to carry out a performance of a tone on the basis of performance data; and

a controller coupled with said receiver and said performance apparatus and adapted to control said performance of a tone by said performance apparatus in accordance with each of the detection data received via said receiver, wherein said controller identifies a type of operation of said motion detector by comparing the detection data of the plurality of axial components and controls the performance on the basis of the identified type of operation.

Claim 34 (original): A control system as claimed in claim 33 wherein control of said performance of a tone by said controller controls a tone volume of the tone to be performed by said performance apparatus.

Claim 35 (original): A control system as claimed in claim 33 wherein control of said performance of a tone by said controller controls a tempo of the tone to be performed by said performance apparatus.

Claim 36 (original): A control system as claimed in claim 33 wherein control of said performance of a tone by said controller controls performance timing of the tone to be performed by said performance apparatus.

Claim 37 (original): A control system as claimed in claim 33 wherein control of said performance of a tone by said controller controls a tone color of the tone to be performed by said performance apparatus.

Claim 38 (original): A control system as claimed in claim 33 wherein control of said performance of a tone by said controller controls an effect of the tone to be performed by said performance apparatus.

Claim 39 (original): A control system as claimed in claim 33 wherein control of said performance of a tone by said controller controls a tone pitch of the tone to be performed by said performance apparatus.

Claim 40 (original): A control system as claimed in claim 33 wherein the performance data is automatic performance data, and said performance apparatus performs the tone on the basis of the automatic performance data.

Claim 41 (original): A control system as claimed in claim 33 wherein the plurality of detection data represent acceleration of the motion in directions of two axes.

Claim 42 (original): A control system as claimed in claim 33 wherein the plurality of detection data represent acceleration of the motion in directions of three axes.

Claim 43 (original): A control system as claimed in claim 33 wherein said motion detector is held by a hand of the performer.

Claim 44 (original): A control system as claimed in claim 33 wherein said motion detector is attached to a body of the performer.

Claim 45 (original): A control system as claimed in claim 33 which further comprises a transmitter adapted to receive guide data for providing a guide or assistance as to a motion to be made by the performer.

Claim 46 (original): A control system as claimed in claim 33 wherein said performer is a human being.

Claim 47 (original): A control system as claimed in claim 33 wherein said performer is an animal.

Claim 48 (original): A control system as claimed in claim 33 wherein said performer is a stand-alone intelligent robot.

Claim 49 (original): A control system as claimed in claim 33 wherein said receiver is further adapted to receive instruction data transmitted from said motion detector, the instruction data being data instructing at least a tone color, and wherein said performance apparatus is further adapted to set, on the basis of the instruction data received via said receiver, a tone color of the tone to be performed.

Claim 50 (original): A control system as claimed in claim 49 wherein the sensor included in said motion detector is an acceleration sensor, and the detection data is data indicative of acceleration of the motion detected via the acceleration sensor, and

wherein said performance apparatus performs a tone of a tone color set on the basis of the instruction data, at a time of a peak in the detected acceleration represented by the detection data.



Claim 51 (currently amended): A control system comprising:

a receiver adapted to receive detection data transmitted from a plurality of motion detectors provided for movement with a performer, each of the detection data representing a state of a motion of the performer detected via a sensor that is included in a corresponding one of said motion detectors moving with the performer, said plurality of motion detectors comprising master and subordinate detectors;

a performance apparatus adapted to carry out a performance of a tone on the basis of performance data; and

a controller coupled with said receiver and said performance apparatus and adapted to control said performance of a tone by said performance apparatus in accordance with each of the detection data received from said motion detectors, wherein the form of control, by said controller, is determined in accordance with an operation mode that is designated on the basis of operation-type identifying data included in the detection data transmitted by the master detector.

Claim 52 (original): A control system as claimed in claim 51 wherein control of the tone by said controller controls a tone volume of the tone to be performed by said performance apparatus.

Claim 53 (original): A control system as claimed in claim 51 wherein control of the tone by said controller controls a tempo of the tone to be performed by said performance apparatus.

Claim 54 (original): A control system as claimed in claim 51 wherein control of the tone by said controller controls performance timing of the tone to be performed by said performance apparatus.

Claim 55 (original): A control system as claimed in claim 51 wherein control of the tone by said controller controls a tone color of the tone to be performed by said performance apparatus.

Claim 56 (original): A control system as claimed in claim 51 wherein control of the tone by said controller controls an effect of the tone to be performed by said performance apparatus.

Claim 57 (original): A control system as claimed in claim 51 wherein control of the tone by said controller controls a tone pitch of the tone to be performed by said performance apparatus.

Claim 58 (original): A control system as claimed in claim 51 wherein the performance data is automatic performance data, and said performance apparatus performs a tone on the basis of the automatic performance data.

Claim 59 (original): A control system as claimed in claim 58 wherein the automatic performance data comprises data of a plurality of parts, and wherein said controller controls a performance of tones of at least two of the parts in accordance with the detection data received from different ones of said motion detectors.

Claim 60 (original): A control system as claimed in claim 59 wherein said controller creates single general detection data on the basis of a plurality of the detection data received from the different motion detectors, and said controller controls the performance of tones of the at least two parts in accordance with the created general detection data.

Claim 61 (original): A control system as claimed in claim 59 wherein said controller performs separate control of respective performance tempos of the tones of the at least two parts in accordance with the detection data received from the different motion detectors.

Claim 62 (currently amended):      A control system ~~as claimed in claim 61~~ comprising:  
a receiver adapted to receive detection data transmitted from a plurality of motion detectors provided for movement with a performer, each of the detection data representing a state of a motion of the performer detected via a sensor that is included in a corresponding one of said motion detectors with the performer;

a performance apparatus adapted to carry out a performance of a tone on the basis of performance data; and

a controller coupled with said receiver and said performance apparatus and adapted to control said performance of a tone by said performance apparatus in accordance with each of the detection data received from said motion detectors,

wherein the performance data is automatic performance data, and said performance apparatus performs a tone on the basis of the automatic performance data,

wherein the automatic performance data comprises data of a plurality of parts, and wherein said controller controls a performance of tones of at least two of the parts in accordance with the detection data received from different ones of said motion detectors,

wherein said controller performs separate control of respective performance tempos of the tones of the at least two parts in accordance with the detection data received from the different motion detectors,

~~which~~ wherein said control system further comprises a storage device adapted to store therein display data separately for individual ones of the parts, and

wherein said controller reads out the display data from said storage device in accordance with separate performance tempo control for the at least two parts and causes a display device to display visual images based on the read-out display data.

Claim 63 (original): A control system as claimed in claim 59 which further comprises a storage device adapted to store therein, separately for individual ones of the parts, tempo control data for controlling a performance tempo, and

wherein said controller controls a performance tempo of one or some of the plurality of parts in accordance with the detection data received via said motion detector and controls a performance tempo of other one or some of the plurality of parts in accordance with the tempo control data stored in said storage device.

Claim 64 (currently amended):      A control system ~~as claimed in claim 63~~ comprising:  
a receiver adapted to receive detection data transmitted from a plurality of motion detectors provided for movement with a performer, each of the detection data representing a state of a motion of the performer detected via a sensor that is included in a corresponding one of said motion detectors moving with the performer;

a performance apparatus adapted to carry out a performance of a tone on the basis of performance data; and

a controller coupled with said receiver and said performance apparatus and adapted to control said performance of a tone by said performance apparatus in accordance with each of the detection data received from said motion detectors,

wherein the performance data is automatic performance data, and said performance apparatus performs a tone on the basis of the automatic performance data,

wherein the automatic performance data comprises data of a plurality of parts, and wherein said controller controls a performance of tones of at least two of the parts in accordance with the detection data received from different ones of said motion detectors,

wherein said control system further comprises a storage device adapted to store therein, separately for individual ones of the parts, tempo control data for controlling a performance tempo,

wherein said controller controls a performance tempo of one or some of the plurality of parts in accordance with the detection data received via said motion detector and controls a performance tempo of other one or some of the plurality of parts in accordance with the tempo control data stored in said storage device,

wherein said storage device is further adapted to store therein display data separately for the individual parts, and

wherein said controller reads out the display data from said storage device in accordance with separate performance tempo control for the at least two parts and causes a display device to display visual images based on the read-out display data.

Claim 65 (original): A control system as claimed in claim 51 wherein tones of particular tone pitches are assigned respectively to said plurality of motion detectors, and said controller controls, on the basis of the detection data from of said motion detectors, generation of the tones of the tone pitches corresponding to said motion detectors.

Claim 66 (original): A control system as claimed in claim 51 which further comprises a transmitter adapted to transmit, to said motion detectors, guide data for providing a guide or assistance as to a motion to be made by the performer.

Claim 67 (original): A control system as claimed in claim 51 wherein said performer is a human being.

Claim 68 (original): A control system as claimed in claim 51 wherein said performer is an animal.

Claim 69 (original): A control system as claimed in claim 51 wherein said performer is a stand-alone intelligent robot.

Claim 70 (original): A control system as claimed in claim 51 wherein at least one of said motion detectors is held by a hand of the performer.

Claim 71 (original): A control system as claimed in claim 51 wherein at least one of said motion detectors is attached to a body of the performer.

Claim 72 (withdrawn): A motion detector for movement with a performer comprising:  
a sensor adapted to detect a state of a motion of the performer;  
a receiver adapted to receive guide data for providing a guide or assistance as to a motion to be made by the performer; and  
a guide device coupled with said receiver for performing a guide function for the performer on the basis of the guide data received via said receiver.

Claim 73 (withdrawn): A motion detector as claimed in claim 72 which further comprises a transmitter adapted to transmit said state of a motion detected via said sensor as detection data to be used for controlling a tone performance.

Claim 74 (withdrawn): A motion detector as claimed in claim 73 wherein said guide device includes a light-emitting device, and said guide function is to inform the performer of tone generation timing by activating light emission of said light-emitting device.

Claim 75 (withdrawn): A motion detector as claimed in claim 73 wherein said guide device includes a display device, and said guide function is to inform the performer of a tone volume value by displaying the tone volume value on said display device.

Claim 76 (withdrawn): A motion detector as claimed in claim 72 wherein said motion detector is held by a hand of the performer.

Claim 77 (withdrawn): A motion detector as claimed in claim 72 wherein said motion detector is attached to a body of the performer.

Claim 78 (withdrawn): A motion detector as claimed as claimed 72 wherein said performer is a human being.

Claim 79 (withdrawn): A motion detector as claimed in claim 72 wherein said performer is an animal.

Claim 80 (withdrawn): A motion detector as claimed in claim 72 wherein said performer is a stand-alone intelligent robot.

Claim 81 (withdrawn): A motion detector as claimed in claim 72 which further comprises a light-emitting device adapted to be subjected to light emission control in accordance with said state of a motion detected via said sensor.

Claim 82 (withdrawn): A motion detector as claimed in claim 72 which further comprises a tone generator for generating a tone on the basis of said state of a motion detected via said sensor.

Claim 83 (withdrawn): A control system comprising:  
a data generator adapted to generate guide data for providing a guide or assistance as to a motion to be made by a performer; and  
a transmitter coupled with said data generator and adapted to transmit the guide data, generated by said data generator, to a motion detector moving with the performer.



Claim 84 (withdrawn): A control system as claimed in claim 83 which further comprises:

a receiver adapted to receive detection data transmitted from a motion detector provided for movement with a performer, the detection data representing a state of a motion of the performer detected via a sensor that is included in said motion detector moving with the performer;

a performance apparatus adapted to carry out a performance of a tone on the basis of performance data; and

a controller coupled with said receiver and said performance apparatus and adapted to control said performance of a tone by said performance apparatus in accordance with the detection data received via said receiver.

Claim 85 (withdrawn): A control system as claimed in claim 84 wherein control of the tone by said controller controls a tone volume of the tone to be performed by said performance apparatus.

Claim 86 (withdrawn): A control system as claimed in claim 84 wherein control of the tone by said controller controls a tempo of the tone to be performed by said performance apparatus.

Claim 87 (withdrawn): A control system as claimed in claim 84 wherein control of the tone by said controller controls performance timing of the tone to be performed by said performance apparatus.

Claim 88 (withdrawn): A control system as claimed in claim 84 wherein control of the tone by said controller controls a tone color of the tone to be performed by said performance apparatus.

Claim 89 (withdrawn): A control system as claimed in claim 84 wherein control of the tone by said controller controls an effect of the tone to be performed by said performance apparatus.

Claim 90 (withdrawn): A control system as claimed in claim 84 wherein control of the tone by said controller controls a tone pitch of the tone to be performed by said performance apparatus.

Claim 91 (withdrawn): A control system as claimed in claim 84 wherein the performance data is automatic performance data, and said performance apparatus performs a tone on the basis of the automatic performance data.

Claim 92 (withdrawn): A control system as claimed in claim 83 wherein said motion detector is held by a hand of the performer.

Claim 93 (withdrawn): A control system as claimed in claim 83 wherein said motion detector is attached to a body of the performer.

Claim 94 (withdrawn): A control system as claimed as claimed 83 wherein said performer is a human being.

Claim 95 (withdrawn): A control system as claimed in claim 83 wherein said performer is an animal.

Claim 96 (withdrawn): A control system as claimed in claim 83 wherein said performer is a stand-alone intelligent robot.

Claim 97 (withdrawn): A living body state detector comprising:  
a sensor adapted to detect a body state of a living thing; and  
a transmitter coupled with said sensor and adapted to transmit, to a control system carrying out a tone performance, the body state, detected via said sensor, as body state data to be used for control of the tone performance.

Claim 98 (withdrawn): A living body state detector as claimed in claim 97 wherein the body state detected via said sensor is at least one of a pulse, heart rate, number of breaths, skin resistance, blood pressure, body temperature, brain wave and eyeball movement.

Claim 99 (withdrawn): A living body state detector as claimed in claim 97 wherein said living body state detector is held by a hand of the living thing.

Claim 100 (withdrawn): A living body state detector as claimed in claim 97 wherein said living body state detector is attached to a body of the living thing.

Claim 101 (withdrawn): A living body state detector as claimed in claim 97 which further comprises:

a motion sensor adapted to detect a state of a motion of the living thing; and  
a transmitter coupled with said motion sensor and adapted to transmit detection data representing said state of a motion detected via said motion sensor.

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Claim 102 (withdrawn): A living body state detector as claimed in claim 101 wherein said living body state detector is held by a hand of the living thing.

Claim 103 (withdrawn): A living body state detector as claimed in claim 101 wherein said living body state detector is attached to a body of the living thing.

Claim 104 (withdrawn): A living body state detector as claimed in claim 97 which further comprises a receiver adapted to receive guide data for providing a guide or assistance as to a motion to be made by the living thing.

Claim 105 (withdrawn): A living body state detector as claimed in claim 97 wherein the control of the tone performance controls a tone volume of the tone to be performed.

Claim 106 (withdrawn): A living body state detector as claimed in claim 97 wherein the control of the tone performance controls a tempo of the tone to be performed.

Claim 107 (withdrawn): A living body state detector as claimed in claim 97 wherein the control of the tone controls performance timing of the tone to be performed.

Claim 108 (withdrawn): A living body state detector as claimed in claim 97 wherein the control of the tone performance controls a tone color of the tone to be performed.

Claim 109 (withdrawn): A living body state detector as claimed in claim 97 wherein the control of the tone performance controls an effect of the tone to be performed.

Claim 110 (withdrawn): A living body state detector as claimed in claim 97 wherein the control of the tone performance controls a tone pitch of the tone to be performed.

Claim 111 (withdrawn): A living body state detector as claimed in claim 97 wherein the tone performance is carried out on the basis of automatic performance data.

Claim 112 (withdrawn): A living body state detector as claimed in claim 97 wherein said living thing is a human being.

Claim 113 (withdrawn): A living body state detector as claimed in claim 97 wherein said living thing is an animal.

Claim 114 (withdrawn): A control system comprising:  
a receiver adapted to receive body state data transmitted from a living body state detector, the body state data representing a body state of a living thing detected via a sensor that is included in said living body state detector;  
a performance apparatus adapted to carry out a performance of a tone on the basis of performance data; and  
a controller coupled with said receiver and said performance apparatus and adapted to control said performance of a tone by said performance apparatus in accordance with the body state data received via said receiver.

Claim 115 (withdrawn): A control system as claimed in claim 114 wherein the body state represented by the body state data is at least one of a pulse, heart rate, number of breaths, skin resistance, blood pressure, body temperature, brain wave and eyeball movement.

Claim 116 (withdrawn): A control system as claimed in claim 114 wherein said living body state detector is held by a hand of the living thing.

Claim 117 (withdrawn): A control system as claimed in claim 114 wherein said living body state detector is attached to a body of the living thing.

Claim 118 (withdrawn): A control system as claimed in claim 114 wherein said receiver is further adapted to receive detection data, the detection data being transmitted from a motion detector provided for movement with the living thing and representing a state of a motion of the living thing, and  
wherein said controller is adapted to control said performance of a tone by said performance apparatus, on the basis of the body state data and the detection data.

Claim 119 (withdrawn): A control system as claimed in claim 118 wherein said living body state detector and said motion detector are held by a hand of the living thing.

Claim 120 (withdrawn): A control system as claimed in claim 118 wherein said living body state detector and said motion detector are attached to a body of the living thing.

Claim 121 (withdrawn): A control system as claimed in claim 118 which further comprises a transmitter adapted to transmit, to said motion detector, guide data for providing a guide or assistance as to a motion to be made by the living thing.

Claim 122 (withdrawn): A control system as claimed in claim 114 wherein control of said performance of a tone by said controller controls a tone volume of the tone to be performed.

Claim 123 (withdrawn): A control system as claimed in claim 114 wherein control of said performance of a tone by said controller controls a tempo of the tone to be performed.

Claim 124 (withdrawn): A control system as claimed in claim 114 wherein control of the performance of a tone by said controller controls performance timing of the tone to be performed.

Claim 125 (withdrawn): A control system as claimed in claim 114 wherein control of the performance of a tone by said controller controls a tone color of the tone to be performed.

Claim 126 (withdrawn): A control system as claimed in claim 114 wherein control of the performance of a tone by said controller controls an effect of the tone to be performed.

Claim 127 (withdrawn): A control system as claimed in claim 114 wherein control of the performance of a tone by said controller controls a tone pitch of the tone to be performed.

Claim 128 (withdrawn): A control system as claimed in claim 114 wherein said performance of a tone is carried out on the basis of automatic performance data.

Claim 129 (withdrawn): A control system as claimed as claimed 114 wherein said living thing is a human being.

Claim 130 (withdrawn): A control system as claimed in claim 114 wherein said living thing is an animal.

Claim 131 (withdrawn): A control system comprising:  
a receiver adapted to receive body state data of a plurality of living things transmitted from a plurality of living body state detectors associated with the plurality of living things, each of the body state data representing a body state of one of the living things detected via a sensor that is included in said living body state detector associated with the one living thing;  
a performance apparatus adapted to carry out a performance of a tone on the basis of performance data; and  
a controller coupled with said receiver and said performance apparatus and adapted to control said performance of a tone by said performance apparatus in accordance with the body state data of the plurality of living things received via said receiver.

Claim 132 (withdrawn): A control system as claimed in claim 131 wherein the body state represented by the body state data is at least one of a pulse, heart rate, number of breaths, skin resistance, blood pressure, body temperature, brain wave and eyeball movement.

Claim 133 (withdrawn): A control system as claimed in claim 131 wherein each of said living body state detectors is held by a hand of one of the living things.

Claim 134 (withdrawn): A control system as claimed in claim 131 wherein each of said living body state detectors is attached to a body of one of the living things.

Claim 135 (withdrawn): A control system as claimed in claim 131 wherein said receiver is further adapted to receive detection data from a plurality of motion detectors associated with the plurality of living things and provided for movement with corresponding ones of the living things, each of said motion detectors transmitting the detection data representing a state of a motion of the corresponding living thing, and

wherein said controller is adapted to control said performance of a tone by said performance apparatus, on the basis of the body state data and the detection data of the plurality of living things.

Claim 136 (withdrawn): A control system as claimed in claim 135 wherein each of said living body state detectors and said motion detectors is held by a hand of the corresponding living thing.

Claim 137 (withdrawn): A control system as claimed in claim 135 wherein each of said living body state detectors and said motion detectors is attached to a body of the corresponding living thing.

Claim 138 (withdrawn): A control system as claimed in claim 135 which further comprises a transmitter adapted to transmit, to each of said motion detectors, guide data for providing a guide or assistance as to a motion to be made by the living thing.

Claim 139 (withdrawn): A control system as claimed in claim 131 wherein control of said performance of a tone by said controller controls a tone volume of the tone to be performed.

Claim 140 (withdrawn): A control system as claimed in claim 131 wherein control of said performance of a tone by said controller controls a tempo of the tone to be performed.

Claim 141 (withdrawn): A control system as claimed in claim 131 wherein control of the performance of a tone by said controller controls performance timing of the tone to be performed.



Claim 142 (withdrawn): A control system as claimed in claim 131 wherein control of the performance of a tone by said controller controls a tone color of the tone to be performed.

Claim 143 (withdrawn): A control system as claimed in claim 131 wherein control of the performance of a tone by said controller controls an effect of the tone to be performed.

Claim 144 (withdrawn): A control system as claimed in claim 131 wherein control of the performance of a tone by said controller controls a tone pitch of the tone to be performed.

Claim 145 (withdrawn): A control system as claimed in claim 131 wherein the performance of a tone is carried out on the basis of automatic performance data.

Claim 146 (withdrawn): A control system as claimed as claimed 131 wherein each of said living things is a human being.

Claim 147 (withdrawn): A control system as claimed in claim 131 wherein each of said living things is an animal.

Claim 148 (withdrawn): A control apparatus for controlling readout of time-serial data, said control apparatus comprising:

- a storage device adapted to store therein time-serial data of a plurality of data groups;
- a data supplier adapted to supply tempo control data for each of the data groups; and
- a readout controller coupled with said storage device and said data supplier and adapted to read out the time-serial data of the plurality of data groups from said storage device at a predetermined readout tempo, said readout controller being adapted to control the readout tempo for each of the data groups in accordance with the tempo control data supplied by said data supplier for the data group.

Claim 149 (withdrawn): A control apparatus as claimed in claim 148 wherein the tempo control data for each of the data groups is stored in said storage device along with the time-serial data for the data group, and wherein said data supplier reads out, from said storage device, the tempo control data for each of the data groups and thereby supplies the tempo control data to said readout controller.

Claim 150 (withdrawn): A control apparatus as claimed in claim 148 wherein said data supplier generates the tempo control data for each of the data groups on the basis of control data transmitted from a plurality of controllers.

Claim 151 (withdrawn): A control apparatus as claimed in claim 150 wherein each of said control data represents a state of a motion made by a performer operating a corresponding one of said controllers.

Claim 152 (withdrawn): A control apparatus as claimed in claim 150 wherein each of said control data represents a body state of a performer operating a corresponding one of said controllers.

Claim 153 (withdrawn): A control apparatus as claimed in claim 148 wherein the tempo control data for each of the data groups, supplied to said readout controller by said data supplier, is further adapted to be written into said storage device.

Claim 154 (withdrawn): A control apparatus as claimed in claim 148 wherein said data supplier generates first tempo control data on the basis of control data transmitted from one or more controllers and generates second tempo control data by reading out tempo control data stored in said storage device, and

wherein said readout controller controls the readout tempo of one or some of the time-serial data of the plurality of data groups on the basis of said first tempo control data and controls the readout tempo of other one or some of the time-serial data of the plurality of data groups on the basis of said second tempo control data.

Claim 155 (withdrawn): A control apparatus as claimed in claim 148 wherein said data supplier is further adapted to generate modification data on the basis of control data transmitted from a controller and modify the tempo control data for each of the data groups on the basis of the modification data, and

wherein said readout controller controls the readout tempo for each of the data groups on the basis of the tempo control data for each of the data groups modified on the basis of the modification data.

Claim 156 (withdrawn): A control apparatus as claimed in claim 148 wherein said storage device is further adapted to store therein display data corresponding to the plurality of data groups, and

wherein said readout controller is further adapted to read out the display data from said storage device on the basis of the tempo control data for each of the data groups supplied by said data supplier and cause a display device to display a visual image based on the display data read out from said storage device.

Claim 157 (withdrawn): A control apparatus as claimed in claim 148 wherein said time-serial data are performance data.

Claim 158 (withdrawn): A control apparatus as claimed in claim 148 wherein said time-serial data are image data.

Claim 159 (withdrawn): A light-emitting toy comprising:  
a sensor provided for movement with a motion of a performer to detect a state of the motion of the performer;  
a light-emitting device; and  
a controller coupled with said sensor and said light-emitting device and adapted to control a style of light emission of said light-emitting device on the basis of the state of the motion detected via said sensor.

Claim 160 (withdrawn): A light-emitting toy as claimed in claim 159 wherein a plurality of the sensors are provided in corresponding relation to a plurality of axes so that the state of the motion for each of the axes may be detected via a different one of said sensors, and  
wherein said controller controls the style of light emission of said light-emitting device on the basis of the state of the motion for each of the axes detected via said sensor.

Claim 161 (withdrawn): A light-emitting toy as claimed in claim 159 which further comprises a body state detector for detecting a body state of the performer.

Claim 162 (withdrawn): A light-emitting toy as claimed in claim 161 wherein said controller is adapted to control the style of light emission of said light-emitting device in accordance with the body state detected via said body state detector.

Claim 163 (withdrawn): A light-emitting toy as claimed in claim 161 which further comprises a storage device, and wherein said controller is further adapted to store, into said storage device, the body state detected via said body state detector.

Claim 164 (withdrawn): A light-emitting toy as claimed in claim 163 wherein said controller is further adapted to store, into said storage device, the state of the motion of the performer detected via said sensor.

Claim 165 (withdrawn): A light-emitting toy as claimed in claim 159 which further comprises a receiver coupled with said controller and adapted to receive data transmitted from outside said light-emitting toy, and wherein said controller is further adapted to control the style of light emission of said light-emitting device on the basis of the data received via said receiver.

Claim 166 (currently amended): A method for controlling a performance of a tone on the basis of detection data transmitted from a motion detector, said method comprising the steps of:

- receiving detection data transmitted from said motion detector provided for movement with a performer, the detection data being time-serial detection data time-serially representing a state of a motion of the performer detected via a sensor that is included in said motion detector moving with the performer;
- carrying out a performance of a tone on the basis of performance data;
- analyzing the motion of the performer on the basis of the detection data received via said step of receiving and thereby generating a plurality of analyzed data, wherein said step of analyzing comprises analyzing a time-varying waveform corresponding to the time-serial detection data and generating a plurality of kinds of characteristic parameters pertaining to a shape of the time-varying waveform; and
- controlling said performance of a tone carried out via said step of carrying out, in accordance with ~~the~~ said plurality of kinds of characteristic parameters analyzed data generated via by said step of analyzing.

Claim 167 (withdrawn): A method for transmitting detection data corresponding to a motion of a performer, said method comprising the steps of:

detecting a plurality of states of a motion of the performer by use of a sensor that is included in a motion detector provided for movement with the performer; and

transmitting detection data representing each of said plurality of states of a motion detected via said step of detecting.

Claim 168 (currently amended): A method for controlling a performance of a tone on the basis of detection data transmitted from a motion detector, said method comprising the steps of:

receiving a plurality of detection data transmitted from a single motion detector provided for movement with a performer, said plurality of detection data being detection data of a plurality of axial components, each of the detection data representing a state of a motion of the performer detected via a sensor that is included in said motion detector moving with the performer;

carrying out a performance of a tone on the basis of performance data; and

controlling said performance of a tone by said step of carrying out, in accordance with each of the detection data received via said receiving, wherein said step of controlling comprises identifying a type of operation of said motion detector by comparing the detection data of the plurality of axial components and controlling the performance on the basis of the identified type of operation.

Claim 169 (currently amended): A method for controlling a performance of a tone on the basis of detection data transmitted from a plurality of motion detectors ~~detector~~ provided for movement with a performer, said method comprising the steps of:

receiving detection data transmitted ~~from a~~ from the plurality of the motion detectors, each of the detection data representing a state of a motion of the performer detected via a sensor that is included in a corresponding one of said motion detectors moving with the performer, said plurality of motion detectors comprising master and subordinate detectors;

carrying out a performance of a tone on the basis of performance data; and

controlling said performance of a tone by said step of carrying out, in accordance with each of the detection data received from said motion detectors, wherein the form of control is determined in accordance with an operation mode that is designated on the basis of operation-type identifying data included in the detection data transmitted by the master detector.

Claim 170 (withdrawn): A method for providing guide data for a performer operating a motion detector, said method comprising the steps of:

detecting a state of a motion of the performer by use of said motion detector moving with the performer;

receiving, from an outside, guide data for providing a guide or assistance as to a motion to be made by the performer; and

performing a guide function for the performer operating said motion detector, on the basis of the guide data received via said step of receiving.

Claim 171 (withdrawn): A method for providing guide data for a performer operating a motion detector, said method comprising the steps of:

generating guide data for providing a guide or assistance as to a motion to be made by a performer; and

transmitting the guide data, generated by said step of generating, to said motion detector moving with the performer.

Claim 172 (withdrawn): A method for controlling, by use of a living body state detector, a tone performance in a control system carrying out the tone performance, said method comprising the steps of:

detecting a body state of a living thing by use of said living body state detector; and  
transmitting, to the control system carrying out the tone performance, the body state, detected via said step of detecting, as body state data to be used for control of the tone performance.

Claim 173 (withdrawn): A method for controlling a tone performance by use of a living body state detector for detecting a body state of a living thing, said method comprising the steps of:

receiving body state data transmitted from said living body state detector, the body state data representing a body state of a living thing detected via said living body state detector;  
carrying out a performance of a tone on the basis of performance data; and  
controlling said performance of a tone by said step of carrying out, in accordance with the body state data received via said step of receiving.

Claim 174 (withdrawn): A method of controlling a tone performance by use of a living body state detector for detecting a body state of a living thing, said method comprising the steps of:

receiving body state data of a plurality of living things transmitted from a plurality of the living body state detectors associated with the plurality of living things, each of the body state data representing a body state of one of the living things detected via a sensor that is included in said living body state detector associated with the one living thing;  
carrying out a performance of a tone on the basis of performance data; and  
controlling said performance of a tone by said step of carrying out, in accordance with the body state data of the plurality of living things received via said step of receiving.



Claim 175 (withdrawn): A method for controlling readout of time-serial data of a plurality of data groups stored in a storage device, said method comprising the steps of:

- supplying tempo control data for each of the data groups; and
- reading out the time-serial data of the plurality of data groups from said storage device at a predetermined readout tempo, said step of reading out controlling the readout tempo for each of the data groups in accordance with the tempo control data supplied via said step of supplying for the data group.

Claim 176 (withdrawn): A method for controlling light emission of a light-emitting device, said method comprising the steps of:

- detecting a state of a motion of a performer by use of a sensor; and
- controlling a style of light emission of said light-emitting device on the basis of the state of the motion detected via said step of detecting.

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Claim 177 (currently amended): A machine-readable storage medium containing a group of instructions to cause said machine to implement a method for controlling a performance of a tone on the basis of detection data transmitted from a motion detector, said method comprising the steps of:

receiving detection data transmitted from said motion detector provided for movement with a performer, the detection data being time-serial detection data serially representing a state of a motion of the performer detected via a sensor that is included in said motion detector moving with the performer;

carrying out a performance of a tone on the basis of performance data;

analyzing the motion of the performer on the basis of the detection data received via said step of receiving and thereby generating a plurality of analyzed data, wherein said step of analyzing comprises analyzing a time-varying waveform corresponding to the time-serial detection data and generating a plurality of kinds of characteristic parameters pertaining to a shape of the time-varying waveform; and

controlling said performance of a tone carried out via said step of carrying out, in accordance with ~~the said plurality of kinds of characteristic parameters analyzed data generated via by said step of analyzing.~~

Claim 178 (withdrawn): A machine-readable storage medium containing a group of instructions to cause said machine to implement a method for transmitting detection data corresponding to a motion of a performer, said method comprising the steps of:

detecting a plurality of states of a motion of the performer by use of a sensor that is included in a motion detector provided for movement with the performer; and

transmitting detection data representing each of said plurality of states of a motion detected via said step of detecting.

Claim 179 (currently amended): A machine-readable storage medium containing a group of instructions to cause said machine to implement a method for controlling a performance of a tone on the basis of detection data transmitted from a motion detector, said method comprising the steps of:

receiving a plurality of detection data transmitted from a single motion detector provided for movement with a performer, said plurality of detection data being detection data of a plurality of axial components, each of the detection data representing a state of a motion of the performer detected via a sensor that is included in said motion detector moving with the performer;

carrying out a performance of a tone on the basis of performance data; and

controlling said performance of a tone by said step of carrying out, in accordance with each of the detection data received via said receiving, wherein said step of controlling comprises identifying a type of operation of said motion detector by comparing the detection data of the plurality of axial components and controlling the performance on the basis of the identified type of operation.

Claim 180 (currently amended): A machine-readable storage medium containing a group of instructions to cause said machine to implement a method for controlling a performance of a tone on the basis of detection data transmitted from a plurality of motion detectors ~~detector~~ provided for movement with a performer, said method comprising the steps of:

receiving detection data transmitted ~~from a~~ from the plurality of the motion detectors, each of the detection data representing a state of a motion of the performer detected via a sensor that is included in a corresponding one of said motion detectors moving with the performer, said plurality of motions detectors comprising of master and subordinate detectors;

carrying out a performance of a tone on the basis of performance data; and

controlling said performance of a tone by said step of carrying out, in accordance with each of the detection data received from said motion detectors, wherein the form of control is determined in accordance with an operation mode that is designated on the basis of operation-type identifying data included in the detection data transmitted by the master detector.

Claim 181 (withdrawn): A machine-readable storage medium containing a group of instructions to cause said machine to implement a method for providing guide data for a performer operating a motion detector, said method comprising the steps of:

detecting a state of a motion of the performer by use of said motion detector moving with the performer;

receiving, from an outside, guide data for providing a guide or assistance as to a motion to be made by the performer; and

performing a guide function for the performer operating said motion detector, on the basis of the guide data received via said step of receiving.

Claim 182 (withdrawn): A machine-readable storage medium containing a group of instructions to cause said machine to implement a method for providing guide data for a performer operating a motion detector, said method comprising the steps of:

generating guide data for providing a guide or assistance as to a motion to be made by a performer; and

transmitting the guide data, generated by said step of generating, to said motion detector  
moving with the performer.

Claim 183 (withdrawn): A machine-readable storage medium containing a group of instructions to cause said machine to implement a method for controlling, by use of a living body state detector, a tone performance in a control system carrying out the tone performance, said method comprising the steps of:

detecting a body state of a living thing by use of said living body state detector; and

transmitting, to the control system carrying out the tone performance, the body state, detected via said step of detecting, as body state data to be used for control of the tone performance.

Claim 184 (withdrawn): A machine-readable storage medium containing a group of instructions to cause said machine to implement a method for controlling a tone performance by use of a living body state detector for detecting a body state of a living thing, said method comprising the steps of:

receiving body state data transmitted from said living body state detector, the body state data representing a body state of a living thing detected via said living body state detector;

carrying out a performance of a tone on the basis of performance data; and

controlling said performance of a tone by said step of carrying out, in accordance with the body state data received via said step of receiving.

Claim 185 (withdrawn): A machine-readable storage medium containing a group of instructions to cause said machine to implement a method of controlling a tone performance by use of a living body state detector for detecting a body state of a living thing, said method comprising the steps of:

receiving body state data of a plurality of living things transmitted from a plurality of the living body state detectors associated with the plurality of living things, each of the body state data representing a body state of one of the living things detected via a sensor that is included in said living body state detector associated with the one living thing;

carrying out a performance of a tone on the basis of performance data; and

controlling said performance of a tone by said step of carrying out, in accordance with the body state data of the plurality of living things received via said step of receiving.

Claim 186 (withdrawn): A machine-readable storage medium containing a group of instructions to cause said machine to implement a method for controlling readout of time-serial data of a plurality of data groups stored in a storage device, said method comprising the steps of:

supplying tempo control data for each of the data groups; and

reading out the time-serial data of the plurality of data groups from said storage device at a predetermined readout tempo, said step of reading out controlling the readout tempo for each of the data groups in accordance with the tempo control data supplied via said step of supplying for the data group.

Claim 187 (withdrawn): A machine-readable storage medium containing a group of instructions to cause said machine to implement a method for controlling light emission of a light-emitting device, said method comprising the steps of:

detecting a state of a motion of a performer by use of a sensor; and

controlling a style of light emission of said light-emitting device on the basis of the state of the motion detected via said step of detecting.

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Claim 188 (withdrawn): A signal to be transmitted comprising:  
ID data corresponding to a sensor included in a motion detector; and  
detection data representing a state of a motion detected, for each of a plurality of axes, via the sensor in said motion detector.

Claim 189 (withdrawn): A signal to be transmitted as claimed in claim 188 wherein said detection data representing a state of a motion is acceleration data.

Claim 190 (withdrawn): A signal to be transmitted comprising:  
time-serial data of a plurality of data groups; and  
tempo control data for controlling a reproduction tempo of the time-serial data for each of the data groups.

Claim 191 (withdrawn): A signal to be transmitted as claimed in claim 190 wherein the time-serial data are performance data.

Claim 192 (withdrawn): A signal to be transmitted as claimed in claim 190 wherein the time-serial data are image data.

Claim 193 (new): A control system as claimed in claim 51 wherein said operation mode is switchable between at least a group mode where an average value of predetermined data between at least two said subordinate detectors is calculated on the basis of the detection data transmitted by the at least two subordinate detectors and the performance is controlled on the basis of the average value, and an individual mode where values of predetermined data are calculated respectively for the at least two subordinate detectors on the basis of the detection data transmitted by the subordinate detector and the performance is controlled on the basis of the respective calculated values of the predetermined data.

Claim 194 (new): A control system as claimed in claim 51 wherein the performance data comprises a plurality of performance tracks, and

wherein said operation mode is switchable between at least a whole leading mode where performance parameters in all of the plurality of performance tracks are controlled on the basis of the detection data transmitted by the subordinate detector, and a partial leading mode where the performance parameters in one or more, but not all, of the plurality of performance tracks are controlled on the basis of the detection data transmitted by the subordinate detector.

Claim 195 (new): A control system as claimed in claim 51 wherein said controller classifies the detection data transmitted by the subordinate detector into any one of a plurality of groups on the basis of terminal-identifying data included in the detection data transmitted by the subordinate detector, and said controller performs tone control corresponding to the classification of the detection data.